

UDOT STRUCTURES DIVISION COMMENT AND RESOLUTION SHEET				CODES: A. ACCEPT COMMENT—WILL BE CORRECTED, ADDED, OR CLARIFIED. B. DESIGNER WILL EVALUATE. C. DELETE COMMENT D. DEPARTMENT TO EVALUATE.			
DOCUMENT CONTROL NUMBER:		REVIEW TYPE: DRAFT		REVIEWER(S): PARTICIPANTS		DATE: 9-3-08	
DESCRIPTION: ABC PHASE 2 WORKSHOP COMMENTS		DESIGNER: CME		DISCIPLINE: FABRICATION		CRM:	
ITEM No.	PAGE No. ⁽¹⁾	COMMENTS	CODE ⁽²⁾	RESPONSE ⁽²⁾	FINAL DISPOSITION ⁽³⁾		
1		Columns: Casting of hexagonal (or octagonal) columns in the flat position is the preferred method for precast columns in a yard rather than in vertical.	A	Agreed	No changes required		
2		Is the quality better for a slow cure versus higher strength in a shorter cure? How do we get more time for casting and curing? Near site staging area does not have that same quality control then at the plant. Sometimes precast pieces are too large to transport from the site and near site casting and reduces shipping costs, Contractors may become PCI certified level the playing field. Quality control for contractors. The goal is to have the same quality.	B	The issue with concrete quality and “near site” casting by contractors is being studied. Pre-certification of “near site” fabrication is also being considered.	This issue is being studied in detail by UDOT		
3		When is the cut off time for preferred curing time and turn around?	B	Cure times are being reviewed as part of this project.	This issue is being studied in detail by UDOT		
4		Keeping tolerances with all fields is needed.	B	The development of tolerance limits for all prefabricated components is included in this project.	Tolerance sheets have been developed for all critical components		

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5		Connections: Avoid splices in the plastic hinge. The P-2 and P-4 pier details can be constructed but are more costly P-1 and P-3 details have been used in building construction in high seismic zones and have been tested. Couplers are not the same as a splice, but AASHTO looks at it as one.	B	The performance of grouted couplers in the plastic hinge zone has been studied, and the results are compelling evidence that the coupler perform as well as cast-in-place concrete. More research may follow.	This has been discussed with other "high seismic" states such as CALTRANS and Washington. They agree that the connections shown look very promising. UDOT is pursuing research funding to validate this connection.		
6		For the bent cap and column connection, creating a level playing field is preferred.	C	We are not sure what is meant by this comment.	No changes required		
7		Is leveling screws an issue for a precast footing?	B	Leveling screws have been used by the NH DOT in footings. The key to their use is to suggest with plan notes that the footing be leveled before the cranes fully release the footing, thereby making it easier to adjust the bolts.	Typical leveling bolt details may be developed with load capacities during final design		
8		Bulb Tees: Standardize Girder Forms	A	Agreed	This has been done. A decision was made by UDOT to switch to hard English beam depths		

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9		Bulb Tees: Use a 6.1" web to reduce weight	B	This is being studied by the design team.	The final disposition of this issue was to use the thinner web in order to take advantage of the girder efficiency
10		The investment in decked bulb tees may not be worth the cost of implementation unless the use of the section is significant	B	UDOT believes that this section can be very useful for rural bridges.	No changes required
11		Bulb Tees: There is a safety issues with bundling of strand as shown on the standard	A	Agreed. The final standards will most likely not have bundled strand.	The number of bundled strand was reduced. Washington state fabricators will be contacted to resolve this issue.
12		Bulb Tees: Standardize internal reinforcing patterns	A	This is a goal of the design team	This has been done
13		Investigate prefabricated steel elements in substructures	C	There have been very few applications of steel substructures in the US; therefore no details exist. For this reason, steel substructures will most likely not become standard.	UDOT is looking into this. At this time, it is felt that the system is not market ready at this time. It will be considered in the future
14		Investigate reduced curing times for plant produced concrete using rapid set cements.	B	This is being studied by the design team.	This issue is being studied in detail by UDOT

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15		Bulb Tees: Steel diaphragms and cross frames are preferred over cast in place concrete cross frames	A	Steel diaphragms and cross frames will most likely be the standard.	This was done

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